

An  
Inaugural Essay  
on  
Neuralgia  
for the  
Degree  
of  
Doctor of Medicine  
in the  
University of Pennsylvania

by  
Robert Ansgar  
of  
Pennsylvania

January,  
1828.



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## An Essay on Neuralgia.

The disease intended to be noticed under this title, has of late attracted much attention, not only from the painful character; but from the intractable and obscure nature of the complaint. This essay is not undertaken with the vain hope of throwing any additional light on a subject which has engaged the attention of able and more experienced persons, but for the purpose of collecting and arranging the various opinions and facts appertaining to the inquiry and to condense into a small compass the history of the various remedies, which, at different periods, have been employed in the cure of the disease.

The name Neuralgia (derived from νευρον, nervous; and αλγος, dolor) is selected as the most appropriate of any of the terms employed to designate the disease. The doloreux, the name given by M. Andrie is liable to objection, as the word Tic is often used in the same sense, as Trismus, there-

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by confounding two diseases which are entirely dissimilar. The same objection will apply to "Anismus Dolerificus" the name proposed by *de Sauvages*. +

The names employed by *De Haen* ("a painful affection of the face") and *St. Fothergill* ("*Facies morbus nervorum criciana*") are defective as generic terms, in confining their application to that form only, which affects the face. Even the latter term may be reduced to the same signification as *Oculargia*, but not so concisely expressed, by the omission of the first word of the term. The terms *Autalgia dolerica* and *Trotopalgia* are rejected as expressive neither of the nature or seat of the disease. +

With regard to the period at which this disease first made its appearance, authors are at variance, some ascribing it to the time of *Hippocrates*, others to that of *Rhazes* an Arabian writer, while a third class place it at no earlier date than the middle of the last century. *Paget* who has taken the greatest trouble in this inquiry, was unable to satisfy him- +



self that the ancient Greek writers were acquainted with the disease. He gives the credit of the first accurate description, to M. Astruc of Versailles who related it in his treatise on the diseases of the Uræters published A.D. 1736. This opinion is the one most generally adopted at the present time. Since this period it appears to have been more frequently noticed. It was next noticed in France by M. Louis in 1766, subsequently by M. Villard in 1768, and by Poyet and Thouriet about 1782. The first notice of the disease in England appeared in the third volume of Medical observations and inquiries, in a case detailed by Dr J. Fothergill in a paper entitled "Observations on the use of Hemlock." This slight notice was followed in the fifth volume for the year 1773, by a paper from the same author devoted entirely to the consideration of this disease. The next notice was by Dr J. Haughton in the Medical Records and Researches, A.D. 1778. This was followed in 1784 by the systematic treatise of Dr J. Fothergill, and still later by sever

*[Faint, illegible handwriting in a cursive script, likely a historical document or manuscript.]*

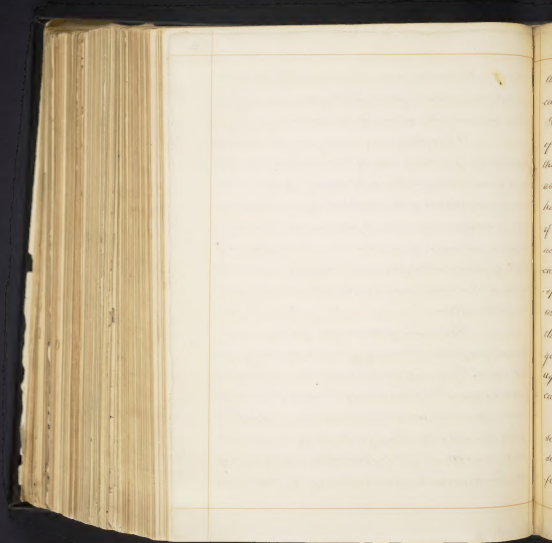
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and other observations some in distinct parts, others in the different periodical publications of the day, appended to the various cases noticed by the authors.

Neuralgia may be defined, to be, a morbid sensibility of a nerve and its branches attended with acute lancinating pain in its course together with convulsive actions of the neighbouring muscles, occurring in sudden intermitting paroxysms. This definition is intended to embrace the characteristic signs of this disease without entering into details which will receive an appropriate consideration in another place.

The causes of this disease are not always obvious some persons becoming affected without any apparent cause. They may however be divided into Local and General causes. The Local are, injuries, or partial division, puncture contusion or any organic lesion of the nervous fibre. Tumors pressing upon or enclosed in a nerve, slight inflammation or congestion of the neurilemma, a varicose state of its vains, and



the irritation of decayed teeth. The passages of a calculus through the duct gave rise in one case to Neuralgia of the Olfactory nerve, and inflammation of the soft parts round the root of a nerve has been the cause in another. The General Causes are not all known, but the following may be mentioned as, having a great share in the formation or aggravation of the disease when formed. First, Such as by their action on the general system are known to produce local effects, as, exposure to cold and moisture - exposure, to vicissitudes of weather. &c. Second, Such as produce constitutional derangements. Though these causes, may be denied to produce the disease, yet they must be acknowledged to act as powerful agents in aggravating it when by the action of any cause it has been produced.

This disease is not confined to any particular set of nerves, but may affect all the nerves of sensation, especially those which are seated superficially and in loose cellular texture. The nerves



thus situated are more exposed to the action of external agents, as, injuries, cold, changes of weather &c. The form which is most usually seen, is that of oedematous neuralgia faciei, affecting the branches of the fifth pair of nerves. The second or suborbital branch is more commonly affected than either of the others. The next in frequency is that form denominated neuralgia faciei ophthalmica. The other forms are comparatively rare. The peculiar names given to the disease according as it affects different parts are no further useful than as pointing out the location of the disease. The occurrence of two forms of this disease in the same person is seldom seen. Cases of this kind are said to have occurred to *Richards*, *Cotugno* and *Douglis*.

The period of life at which this disease occurs is stated by *L. E.* *Fothergill* to be about the fortieth year. This may be admitted as the period at which it is most usually seen. Cases however have occurred at a much earlier period. Of thirty nine cases re-



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posed in the different ancient paranasal sinuses  
the ages mentioned, twenty nine weathers forty six  
between thirty and forty a middle year under thirty  
years of age. The time of life may perhaps be more  
correctly designated as that period at which the  
system appears to be losing its balance and  
becoming liable to be affected by slight causes. This  
period varies in different persons according to  
their natural constitution, their previous man-  
ners and habits of life and the more or less fre-  
quent action of those causes which have a ten-  
dency to bring on premature old age. The sudden  
deaths of females would seem likely to render them  
more susceptible of the disease, but that they are so,  
appears doubtful. It occurred thus in the practice of  
E. J. Fothergill, but in that of Rigot the contrary obtained.

In exhibiting the symptoms of this disease  
but few will be selected when most frequently  
occurs, as affording the best specimen of the af-  
fection. As the characteristic signs are the same

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in all parts of the body, the disease may be recogni-  
sed with equal facility in any other form by taking  
into consideration the anatomical structure of the af-  
fected parts. A form of this disease is described by some  
of the German writers in which an intermittent charac-  
ter is clearly manifested by the attacks recurring at re-  
gular intervals. The objections of the existence of this  
form are received with doubt by many and by others  
entirely rejected, on the ground that the disease has  
been confounded with Rheumatism. There occurs also  
some other affection of the head, which are well  
known to assume a periodical character. Whether  
this form exists, is not pretended to be affirmed or  
denied, but until these accounts receive further  
confirmation, they may be accounted as observations  
not firmly to be relied on. The disease will therefore  
be considered without any reference to its assumption  
of a periodical character. The disease in its commence-  
ment, varies in its mode of attack, sometimes beginning  
suddenly in severe paroxysms, at others in a slight



a manner not attract but little notice, a uneasy excited  
 attention after some time by the greater frequency and  
 violence of the paroxysms, while on other occasions it  
 assumes a form much resembling Rheumatism, which  
 in its course gradually puts on the appropriate signs  
 of this disease. In whatever manner the disease may  
 commence, the form which it ultimately exhibits will  
 be the same. Its attacks are marked by paroxysms com-  
 ing at irregular intervals and of uncertain duration, en-  
 ding from several seconds to as many minutes. The paroxysms  
 are generally sudden in their attack, exciting the patient,  
 in a short time in a state of comparative and often per-  
 fect rest. At times these paroxysms are preceded by  
 acute pulsatile pain, which I have often compared  
 to "the vibrations of a musical chord". At this period on  
 observing attentively the parts to which the affected nerve  
 is distributed a slight convulsive action of the muscles  
 may be seen, which action seems to vary according to  
 each chord of the pain. This throbbing pain is often  
 more disagreeable, though not so violent as the acute



pain of the paroxysm. The pain in this disease is acute and lancinating, shooting along the course of the nerve from its extremities to its origin. The sensation has been compared to burning, or stinging, tearing or cutting the flesh from the bone. When a sea-sick patient is attacked with a paroxysm of this disease, a severe pain is soon suddenly manifested, even in the most uneasy posture. The countenance is expressive of intense agony, the brows are knit, the eyes are compressed, the angle of the mouth drawn towards the ear, the breathing is slow, and usually at times becomes almost a total suspension of respiration, and the patient appears as if afraid of the slightest motion, the whole appearance portraying in visible signs the intensity of the suffering. These paroxysms are sometimes accompanied by redness or watering of the eye of the affected side and a flow of saliva from the mouth. It sometimes happens the case that by hard pressure or rubbing the hand upon some particular spot, the patient can alleviate the pain. This is not at all times the case even in the same person, but is generally perceived at that time when



the paroxysms occur with least frequency, in paroxysms are least numerous during the night than during the day, owing to the patient being in a state of insensibility, and to many of the exciting causes being withdrawn. The state of stupor does not prevent the accession of a paroxysm, as by the slightest touch of the bedclothes the patient may be transported from his soundest sleep to a state of intense suffering. The paroxysms occur at some periods more frequently than at others. Some persist for many from a few days to no many months in duration, while some are at all times equally affected. Variations of weather influence the frequency of the paroxysms, they being more frequent in cold and damp than in a warm and dry weather. Occasionally the disease disappears suddenly and never again returns, but mostly if for an interval of time it recurs with its former violence. Some patients are the more frequent when the disease is somewhat standing. In these cases though the patient may be treated with the hope of entire relief, yet a renewal of the disease may confidently be expected. Notwithstanding





the deep sleep of the pain. There is a very strong swelling, & a  
 swelling of the soft parts. Occasional vomiting, & a  
 frequently repeated purging, are a slight indication  
 of the power to which the suppurated vessels are not con-  
 tained, & such. This swelling appears to be a  
 very strong matter, & it is commonly  
 of suppuration, as it is often seen in the  
 in all marked cases terminates in suppuration. The  
 most trivial causes are sufficient to produce a pro-  
 gress, a slight motion, making, drinking, talking,  
 & minute touch, from their repetition is a great cause  
 of pain, is productive of excruciating pain.

Neuralgia may be confounded with Nephritis, Oden-  
 talgia, Hemisoma. Affections of the Intestine, Puer-  
 peral, & other diseases, when the disease is  
 very violent, as it is, with other marks, it is mani-  
 fest that it is not easily mistaken. In the commencement  
 it is not so well marked, and as all diseases have a tenden-  
 cy, when neglected or imperfectly treated, to become more  
 firmly fixed, and to be eradicated with difficulty, it



sensitive in proper to present the diagnostic symptoms  
of the disease.

that form of disease is excited by a stimulus  
without inflammation, the nature and type of the  
malady is most liable to be confounded with  
Neuralgia, not only from its affecting the same parts,  
but from its having some symptoms common to both. It  
however may be distinguished by the pain in Neuritis  
being constant, with only occasional exacerbations and  
remissions, but never suddenly intermits as in Neu-  
ralgia. A manifest swelling of the nerve may generally  
be perceived in Neuritis and its functions are more ex-  
cept impaired. On the contrary in Neuralgia there is seldom  
any swelling and no loss of function.

Nevralgia may be distinguished from Odontalgia, by its occurring generally at an age when but few teeth remain, by the shortness of the paroxysm, the intervals of ease and the darting nature of the pain; while in Odontalgia the pain is deep seated and may usually be traced to the irritation of a decayed



tooth, and more particularly, is cured by striking the  
suspected tooth with a hard body.

From Hemiorrhoea it is to be distinguished by the  
of the attack in the former being generally preceded  
the pain fixed to a definite spot, continuing some  
length of time and disappearing in a gradual man-  
ner; the pain likewise does not follow the course of any  
nerve, and requires stronger causes to produce an ex-  
acerbation.

The affections of the Autram differ in their symp-  
toms from Neuralgia in the pain being constant and  
confined to the region of the autram, never starting in  
the course of a nerve, and by the ultimate issue, as they  
terminate by a discharge of pus or cure considered in  
generality. The affection is also not much under the  
influence of external agents.

Some diversity of symptoms exist between Neural-  
gia and Rheumatism, the pain in the former being con-  
tinual, intermitting and following the course of a  
nerve; while in Rheumatism, it is fixed, constant and



and in the State from morning up yet not so violent as  
in the morning. In the chronic form the pain being constant  
does not seem hungry and not so violent as in the acute.

From this it may be distinguished of the sudden cess-  
ation and recurrence of the pains, and the frequent  
occurrence of longer continuance, and accompanied by lo-  
cal inflammation.

Syphilitic pains are distinguished by the pre-  
vious history of the complaint and their period of ex-  
acerbation being at night when the patient is undisturbed.

The inflammation of the nerves from syphilis in the  
examinations we even at the present period extremely  
limited. Both however are pre-occupied, the opportu-  
nities of detecting the specific condition of the affected  
nerves have been rare. In the few cases in which this  
appears much diversity in the state of the affected parts  
While in some cases no deviation from the healthy state  
has been found, in others diseased appearances have pre-  
sented. In some cases the nerve seems not only more  
highly tinged with blood than is natural, very often thick-





neurotism being more violent than in the former, in the  
 the neurotism was covered with various vires and in a  
 relaxed state, but not containing any except of denudation.  
 (The given instance is quite cold, in the relaxed state of  
 the neurotism, neurotism is not a debilitating cause, it can  
 only have a debilitating effect in the secondary exhibition of it.  
 through too long a delay in making the examination, their  
 cases were too frequent to not their existence to some pro-  
 portion of the vires in the substance of the nerves. It  
 though so much diversity, now existed in the diseases ap-  
 pearances, no difference had presented in the symptoms  
 in which the cause might have been known, except in  
 those cases caused by tumors, in which the morbid pro-  
 portion was evident to the vires.

Much difference of opinion exists as to the  
 proximate cause of Neuralgia, each author setting forth  
 his own opinion or honestly confessing his ignorance. Not-  
 withstanding the numerous hypotheses advanced for  
 determining the proximate cause, none can be consider-  
 ed based upon a foundation entitled to much confi-



dence. And as to the knowledge of the disease and  
 its nature, I suppose it cannot be ascertained of  
 the nature, and extent of disease and its nature, by  
 the opinion, without pointing out the nature of the  
 disease. In this opinion, however, that of 1812, who  
 observed it, was the disease to be an, extensive  
 state of weakness of the heart, depending on the  
 of a permanent cause to produce a paroxysm. This  
 hypothesis was rejected by Thwait, who entering mi-  
 nutely into the subject of Cramp maintained the  
 utter dissimilarity of the two diseases. Dr. Fether-  
 gill forming his opinion from the presence of certain  
 local affections in these affections and its nature,  
 was led to consider the disease as connected with a  
 general diathesis. In subsequent remarks of 2<sup>d</sup>  
 it might suffice to show the fallacy of the opinion.  
 2<sup>d</sup> Fethergill is not the only writer who has con-  
 nected this disease with other affections of the system:  
 Some later writers have made the proximate cause  
 to consist in an articular diathesis, founding their opi-



nix on the fact, that these pains disappear on an actual  
heat, and from observing at the affected point inflammation  
may suppose to remember these caused by heat. But as  
observed by L. J. D. Murray "no this hypothesis is not  
applicable to every case it is inadequate to explain the  
mystery." By L. J. D. Murray, the disease is located in the capil-  
lary vessels of the neurilemma and said to consist in an  
"increased vascularity or determination of blood, per-  
haps amounting to inflammation, of that part. That  
this is sometimes the case is shown by the morbid ex-  
aminations, but other phenomena also present which  
are not consistent with this theory. To Amstrong this  
disease appeared as "a congestion or increased action  
in the vessels of the brain." This cannot be the case in  
those attacks which have their origin in local causes,  
alcoholics, &c. the hypothesis therefore falls short of  
explaining the nature of the disease. By Hornethy,  
Wilson and others, the curia is said to consist in a  
morbid sympathy, having its origin in the digestive  
organs. However active when affections may be in



approaching the disease, it is true, and if we meet many  
 may have in its formation. They can hardly be suppo-  
 sed opposite any particular mode of treatment, and  
 more susceptible to the action of the cause, of the dis-  
 ease. The partial and limited nature of the facts, as  
 laid down is manifest. Each author, relying solely on  
 his notes, which were taken under more or less circum-  
 stances, and have yielded to some peculiar mode of treatment, pre-  
 scribe opinion from these alone, putting entirely out of view  
 those cases which militate against his doctrine. It is evi-  
 dent to this, that the disease had been so differently loca-  
 ted, was connected with affections presenting different  
 phenomena. These partial views would yet be useful;  
 were it not that relying with too much confidence on  
 their correctness, remedies would be rejected, which others  
 have found useful, or we would not incur the danger of  
 pursuing measures not in harmony with our system. On  
 the other hand, rejecting every theory, we deprive our-  
 selves of any clear indication in the choice of our re-  
 medies, resources and we are compelled to act empiri-





society of, from a child to time. I am thus indebted to  
 nature induced to suspect in opinion which of persons  
 it with our present knowledge and by which we can explain  
 the action of our remedies, at the same time, not to be so far  
 carried away by theory as to loose sight of opposing facts,  
 but to leave the way open to further inquiry, and to reserve  
 notions, which if true, it is equally opposite to the  
 so thought to depart from, as to accept the opinion of  
 first by *André* and subsequently revised in the *2<sup>e</sup> édition*  
*de Science médicale*, but we hope by means of the im-  
 pression gained since that period to give some additional  
 strength to the doctrine. *Ward* again then, we are led to con-  
 sider, consists in irritation acting on some part of the ner-  
 vous chord, producing a partial interruption of its func-  
 tions and exhibiting its effects only *only* when the nerve  
 is acted on by the secondary or exciting causes, we shall  
 endeavour to draw some arguments in favour of this view  
 from the *Symptoms, Causes, Phenomena* displayed  
 respectively, and the actions implied in the case of the  
 disease. The *Symptoms* alone were not adequate for the



formation of a granulation of the surface of the disease.

It may appear to show the location of the disease, and the insidious nature of the nervous system, without giving any idea of the cause of this state. From them, the only we cannot learn what we get is that it is not the cause of the disease is manifest: there is not an acute inflammatory action in the neurilemma. That the suddenly intermittent nature of the pain entirely disproves, for in inflammation the pain is constant, varying occasionally in power, but not intermittently, the latter tract, inflammation is more circumscriptive, gradual, generally, originates in irritation. Failing to draw any conclusion from the symptoms we must resort to that contained in the nature of the disease. If that, the causes first attract our attention and persisting throughout the disease. When the disease arises from this cause it pursues the following course. The injury is slight at first, causes much pain and is often without a wound, the injured part soon becomes its natural appearance previous to which it soon after, darting, pains are felt in the course of the nerve, and increasing,

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in frequency and extent, exhibit the characteristic appearance of Neuralgia. Their cause is in motion and profound, opposite effects have in consequence occurred by their influence, exhibiting the results of the peculiar disease. To ascertain the precise nature of them, we must resort to the usual terminations of inflammation. There may remain a chronic dilatation or angostion of the vessels, an effusion of serum or synovia lymph, any of which may by their presence produce a kind of irritation. Neuralgia is said to be frequently connected with anasarca. The connection may be, however, from the principle that accretion takes in anasarca, to this producing irritation of the extremities, which irritation is propagated through the course of the affected nerve.

It was reported by Haller in which the conformation was affected, and by him it was attributed to the passage of calculus through the Ureter. This opinion was founded on the circumstance that the disease usually ceased, and not long after a jagged calculus was passed with the Urine, if he did not err in his conclusion.



are even from the pulsations which are much in pursuit of  
 the electricity. It must therefore exist, to now, placed in the  
 neighbourhood of a nervous chord, but enclosed in a non  
 nervous sheath, and produced the current. But it  
 is not by causing an inflammatory action that these effects  
 are produced, as was first, when that even the current  
 has been not been stopped its existing; it may have  
 caused congestion, which would have proved contra  
 dictory by limiting the action of the nerve. Cases are re-  
 lated by  $\text{L}^{\text{e}}$ . It came at this disease appearing the sym-  
 ptoms of inflammation, which were treated as anti-inflammatory  
 without success, as was the case, because inflammation the  
 nerve, yet the nerve, just before it the fact would have  
 been manifested by the cessation of the pulse, but the  
 disease was caused by the pressure and irritation of the  
 swelling on the nerve. It may now be considered as the con-  
 ses from which every just inference may be drawn, it would  
 not take up the position in which it is affected, the  
 preceding, these phenomena show that the nerve is not in a  
 condition of action. However, this affection may differ, there





often in the same language are capable of interesting people  
of more susceptible sensibility; the same mention their of  
great award to the individual, being that which is sought  
is not to be expected of right conduct the result may be  
entirely reversed. The same may be said in the case of the  
simultaneous movement seems to point out imitation as the  
great motive cause. As, to that we know, where there are most  
efficiency, which moves in the same sensibility. Juries  
are selected, and by imparting to the general  
system, renders particular cases to pass up to the  
situation. Counter instincts are employed and not by sub-  
stituting an imitation society, controlled, for the same in-  
tervention and to promote our immediate management.

The person as have advocated receives suitable sup-  
port from the susceptibility in the operation of the  
long the more, in which the communication between  
the sensibility and affected part is completely re-  
solved. In thus offering our public efforts in favour of the  
doctrine of Andrius can hardly expect to convey sense  
in to the minds of the same as we have done in the



some say that the affection is more specific than  
 others, in the further, & patholog. may rather require the  
 injury to have appeared or substituted one not consistent  
 with the phenomena connected with the disease.

The cause of the disease, we have said may be si-  
 tuated in any portion of the nerve. When an injury is in-  
 flicted on a nerve it is immaterial upon what part  
 it acts, as the disease is with equal readiness produced,  
 but with this difference, that when the trunk receives  
 the injury, the effects are extended in the direction  
 of its extremities, but when the extremities, the ef-  
 fects appear in the trunk and branches given off  
 by it. In addition also it exhibits this difference  
 in the immediate spot acted on.



From the uncertainty in which the true nature of the disease is yet involved, it is difficult to lay down any accurate indications in its treatment. In consideration of this difficulty, the diversity of the causes and the variety in the remedies hitherto employed, we are induced to arrange the curative measures under two classes, first, as directed upon the disease we have enumerated to contain.

Class first. Those measures calculated to remove the cause of the disease.

Class second. Those measures calculated to prevent the action of the causes from reaching the system.

Under these two classes we shall endeavour to comprise all the remedies which have been used in this disease and with the principles of whose action we are acquainted.

Class first. Those measures calculated to remove the cause of the disease.

As these measures will vary according to the cause, our first endeavour should be to ascertain as far as possible, by what agent the disease is produced. In this at



tempt we will meet with considerable disappointment. No means we possess of distinguishing the different causes are few and not to be relied on with much confidence.

The irritation of decayed teeth has been noticed as one of the causes. The presence of this irritation may often be ascertained with ease, at others it is not so apparent, the diseased part being concealed from view. In this case the following measures are usually resorted to. When the disease is in the neck of the tooth and concealed by the gum, it may be detected by passing a delicate, sharp, pointed probe, with a slightly curved end, carefully around the tooth, when if any cavity exists it will be perceived. When the disease is in the root of the tooth, striking with the crown of the suspended tooth, with some metallic instrument will be productive of considerable pain. Though we may have thus ascertained the presence of the disease, we are still uncertain that it is the cause of the disease. We know, it is the case, that the disease has not, succeeded by this cause, whereas the other that they have succeeded without any irritation. If in the former case, we





that the less the disease is cured, but in the earlier, it is  
suppressed. We have then an action of the system, first the  
with a view to pushing to the surface, but it should never  
be considered as a cure, prognostic of the thing it is done  
but from extraction. It may, for the sake of safety, induce  
the difficulty to leave the chair to the patient, & waiting  
the extrusion when after the time of other hemorrhoids.

The purpose of tumors in the third, personal, in fact, we have studied to be another cause of the tumor. In such a tumor cannot always be detected as such causes may be located in parts imperceptible to our touch. It was the appearance never was situated that it recurs can be traced, it is not apparent to the eye on the case. If a tumor, once removed in the course of the appearance never more produces a paroxysm, it is highly probable that the tumor is caused by this tumor. The tumor when not connected to the nerve or surrounding parts is movable in all directions, but when enclosed in the nerve it admits of rotation only. The indication for the removal of the cause can only be accomplished by the removal of the tu-



were if the tumor be not connected with the nerve, its simple removal will be sufficient; but if involved in the nerve, we have the choice either to dissect it out, or cutting through the nerve above and below the tumor to take out a portion with it. From the two cases published by Virr. in the second volume of the Transactions of a Society for the improvement of Medical and Chirurgical knowledge, the latter operation would seem preferable, the other having terminated fatally.

The true cause of the disease is said to consist in "an uninfamed state of the perivascular of the bones to which the nerves involved in the disease are distributed."

This cause was first noticed by Dr. J. Mitchell in a case published in the first number of the N. American medical and surgical journal, and subsequently by Dr. Arnott, who, in the succeeding number, entered more fully into the subject and considered it as the sole cause of the disease.

We consider that the disease is situated at the point "from which the nerves twitches commence." If this opinion does not exist the disease yet may be found



by, supposing men were agree of force, in the parietum.  
 in different points under it is indicated by one pain pot-  
 tence. The nature of such symptoms by the above men-  
 tioned gentlemen are somewhat different. I say, let  
 curing down upon the bone and finding the state of the  
 parietum, bleed the artery leading to the part. I say  
 we must not be influenced by to be laid freely, &c.  
 thus relieving the tension and congestion of the diseased  
 membrane, and if necessary, it is to be repeated.

From some of the phenomena displayed in dis-  
 section it appears that a congestive state or stoppage  
 in the circulation of the nervous system, is another and far  
 more by far the most frequent cause of the disease. It is  
 in this case, that the derangement of the general system exerts  
 a powerful influence in aggravating the disease. Its effects  
 manifesting themselves more readily in the most forward parts  
 as the withdrawing of the approaching, even and under  
 the disease, more tractable, and where the derangement  
 mainly contributes to support the error, excitation, will  
 act as a more ready succedaneum of the disease; it is proper



to turn the attention to the state of the general system. No  
much more to the strengthening of the individuality of  
the structure, as to correct the stomach to more close  
give a disturbance of the digestive organs and to de-  
pend on the restoration of their functions for cure. The  
measures to be used will naturally suggest themselves ac-  
cording to the state requiring correction. In cases of constipa-  
tion, Dyspepsia, gastralgia and other, - cases of impeded  
digestion, much benefit may be derived from Emetics. Dr.  
Sydenham, Dr. Ferrius by removing irritants and opening the bowels, and  
by raising the action of the stomach often prove powerful a-  
gents in restoring the tone of the system and in establishing  
the proper balance between the several parts. They have  
occasionally been strongly recommended by Dr. Sydenham  
Hale, to whom they have been found particularly beneficial  
in the disease under consideration. Often they may have  
more the effect to irritate, but in most cases, it will be necessary  
to follow up their action by other remedies and purga-  
tives are next employed. The plan of treatment adopted by  
Dr. Ferrius consists in the exhibition of five grains of





the blue pill in the evening, to be followed on the succeeding morning by a small dose of Rhubarb. This act gently on the bowels, producing a mild aperient effect. It is perhaps owing to the combination of a mild laxative property with its tonic powers, that the Carbonate of Iron has proved so beneficial in the cure of Neuralgia. The success of this remedy has been generally ascribed to its action as a tonic, and in doses of one scruple crabs, 10 scorpions are displayed in the mere increased tone imparted to the system. But when administered in larger doses, as one or two drachms repeated twice or thrice a day, greater activity has been observed in the peristaltic motion of the alimentary canal and the alvine discharges have been rendered more regular and more abundant. When increased to the quantity of half an ounce, it has the pellicular effects, as stated in the N. American medical and surgical journal, number six page 175. "the bowels were moved during the following day, and the pulse much weakened, without effect of invariable occurrence during the use of the Carbonate."



Mostly the same remarks apply to the term *neuritis*.  
 The variety, though rarely, is, as in the Carcinoma of Stomach, may nevertheless exist in a very many cases,  
 especially when the action of humors is impaired.

The combination of an Omeac with a paralytic, as usually  
 in *W. & W. & W.* will sometimes be more efficacious than either  
 or many more.

Considering the disease as arising from a chronic  
 condition of the digestive organs, *L. & T. Taylor* has recom-  
 mended the use of *Tripsin* acid and carbonate of Soda, af-  
 firming the cure to be more rapid than when produced by  
 the Carcinoma of Stomach. The action of this remedy is not con-  
 fined to the digestive system, the acid much. It influences  
 many other effects encompassing the vitality of the ner-  
 vous system, an operation which will often be found to be  
 of great value.

Having corrected the derangement of the sys-  
 tem or arrangement being found, we must turn our attention  
 to the more immediate cause of the disease, when we  
 have stated it is most frequently in a condition of in-  
 flammation of the neurilemma. The means of saluting this state.



in the first instance are of more use than direct blood-letting. The former may occasionally be required, but in a majority of cases, where it is much desired, as it cannot be immediately, some less easy way must be pursued of diminishing the quantity of blood in the system, so to determine the spot from which blood may be drawn with the least advantage - provided it is drawn from the right instead of the affected part it will be productive of but little benefit & owing to the congestion remaining the more in the face, we cannot expect much benefit from it, except the congestion is near the extremities of the nerve. In some cases, abstraction of the humors, by means of the  $\text{S}^{\text{e}}$  &  $\text{Z}^{\text{e}}$  and other excrements. When the disease affects the extremities, we may expect benefit from the drawing of blood in the course of the nerve, & owing however to effluvia ascending as much or up benefit is derived by the loss of blood from any, & not from any.

From its tendency to reduce the power and expand the circulation & regulate the flow of the humors, the blood being drawn, the humors are regulated by the nerves, and may very soon act as a stimulus to the vital powers.



The state which so often accompanies dysuria, is  
 by pursuing the opinion that the state of the system often  
 really concerned in the production of the disease has led to  
 the symptoms. The effect of this state will certainly be to  
 increase the tendency to increasing renal congestion. By  
 the use of Senos, to correct this state, promote an equanimity  
 in the circulation and remove the nervous and organic  
 effects of inflammation. When reading the works of Jussieu  
 had us to consider them as symptoms to remove them by the  
 use of the same remedy, confirmed by experience. The cas-  
 ture of the ~~not recommended by~~ W. H. Johnston has  
 obtained most celebrity in the early dysuria, according  
 to the gentleman, the effects of the remedy are inspiring with  
 "increasing the general excitement, removing the digestive  
 powers and neutralizing the action, giving a more free course  
 to the blood and augmenting in a great degree the energy  
 of the muscular fibres." Or remedy of such power would  
 appear it to complicate even small cases, and its pre-  
 scription future when that given convinces us that it is  
 not to the same powers alone that we are indebted for the





might derive from an increased dose. The additional quantity  
 required by this increase has been already mentioned and in  
 the combined properties there is certainly one than in  
 the other. The testimony of this has not in this country  
 answered the high expectations raised to it by W. W. Hutton.  
 Some cases have yielded to the remedy,  
 but many more have received no benefit. In what cases  
 this may be attributed it is impossible to say. It maybe, that  
 not yet being accustomed to the use of the remedy in so large  
 doses, we have not required sufficient boldness to push it  
 the extent requisite to test its virtues. The mode of admin-  
 istering the Carbamate, which appears most successful, is  
 to give it doses of a drachm three times a day, until it  
 affords no relief to increase the dose. The only remedy which  
 appears to be set to this increase, is in the bulk of the remedy;  
 half an ounce has been taken without any acrimonious effects.  
 Consequently, we may commence with half a drachm at a  
 dose, but this quantity is seldom sufficient to effect cure.  
 This remedy when taken generally affords relief in a few  
 days after its first exhibition or an increase of the dose.







It is in the great Billa, or by lotus, the cause of a violent  
 and excessive action of the vital force. This being though apparent  
 inappreciable, even in violent, and in other, is even of great  
 importance, as much by its nature. This is in fact, and  
 in practice, a very, unusual, and is an unusual, thing.  
 As a thing in itself, there can be enough to supply it  
 to effect a cure, it is, in fact, the disease.

There are two most important of the Billa, which have  
 been employed in the Billa, the first, which is the Billa, and  
 the second, of which has also been employed, in the  
 not required much of the Billa, the Billa, to them means  
 the most required way, in fact, is not to be very  
 useful. This, employed in the Billa, of the Billa,  
 was of itself, of the Billa, of the Billa. Without the  
 of the Billa, may prove, in the Billa. Then, of the  
 of the Billa, was, in the Billa, of the Billa.  
 the Billa, and tends to, restore the Billa, and equi-  
 vance of the Billa.

Stimulants have occasionally been employed with  
 benefit. The Billa, *Quina ammoniata* is a very good



Mustach, in one case, in the dose of a drachm every twelve hours  
and the effect of "usage, returning his vision". By 1/2 "potion  
of Boston the Aqua Immensa was given, in one case, with  
benefit to the extent of from one to three drachms, three times  
a day; but on repeating the trial in another, it was "not an-  
guish to the cure of the disease". In France, the Oil of Tur-  
pentine in the dose of a drachm twice a day, was used with  
some success in puerperal Neuralgia. This remedy  
was first recommended by M. Charliot, and several suc-  
cessful cases to render it its efficacy. Under this name we may  
also place Electricity: This is reported to have been used in  
some cases, and in others to have caused as much suffering  
as to entirely prevent its use.

The action of Counter-irritants in removing local  
sensations, renders them objectionable to the medical mind  
consideration. Though their application will often be followed  
by benefit, yet we will be disappointed if too much reliance  
be placed in their efficacy. These articles will be the more  
effective the nearer they are placed to the seat of the dis-  
ease, & the remedies. Mustars often removed even constant





is kept open, to the great pain. They are mostly directed  
to the application to the cause of the affected nerve. C. m. and  
however, and one time, opportunity to interrupt the  
flow of the extremities of the nerve, with the view of removing  
the cause of friction from the connection which exists, by  
exciters on the mode of the disease. This plan has been  
followed with some success, in the hospital St. Charles of New  
York, the action being more or less of the nature of the  
of the nerves, and has been used with success in cases of  
this kind, at other patients, and is suggested by the  
state. Stimulating lemnents of different kinds have been  
used with the effect of alleviating, and sometimes  
of curing the disease.

The last remedy to be mentioned is, however, regarded  
as a precaution. This has continually conquered the  
disease, but it is one of our last resources, and is in many  
instances. When it does not effect a cure, I often try salve  
for disease. It is not much, yet it is applied to the legs and  
the extremities. I kept up, at others they are not manifest  
until the action of the mercury is subsiding.



*Clasp serpent.* These measures calculated to procure the action of the remedy, is affecting the mind.

These measures are two, the use of Narcotics and an Operation. The cause of this disease appears to be of such a nature, as to subside spontaneously when the exciting cause is removed, when by their action they are not capable of producing a paroxysm. Narcotics act in these cases by deadening the nervous fibre, thus to prevent the paroxysms and allow the disease to subside, as the paroxysms no longer exist when the primary cause and keep up the disease. It is all attributed to this that opium has been found unsuccessfull in effect a cure. When employed to such an extent as to bring the system under its control, it acts as a paralytic, but it requires a constant increase in the dose, and its power of increasing nervous sensibility is much inferior to that of their action in the same case.

The first mode of this class which is very common in the disease is the Occasion, for the use of which we are indebted to L. J. Bellmerger. In the treatment of insanity many may regard it to procure favorable effects, if gentle -



and, &c. a suppurated joint. The same means have been used by Dr Jackson of Boston with similar success, but in one case he found it requisite to give three hundred grains six times, before it was benefited. There never occurred the case of a like nature exhibit this remedy in a favourable light, and show its efficacy when the system is brought under its control. The effects of this remedy generally manifest themselves, according to Dr Jackson, in less than two hours. Dr Fothergill was to commence with one grain of the extract, to be increased to five grains the second or third dose, and five grains to be added to each succeeding dose, until the desired effect was produced. This remedy is worthy of further trial; Cases will however be met, in which it will only prove palliative.

The *Herpo. Britannica* has used this remedy. Anus first applied to the cure of the disease by Dr Boileau, who used it with much success. Later accounts have coincided with his. The tincture and extract are both useful. The latter to be used in doses of one grain gradually increased, until its effects appear, when smaller doses will keep up the action.



Stramonium from its analogy, is a purgative article but  
 will be even acted. The crop is more used for the Stramonium.  
 2<sup>d</sup>, the next recommended has a different effect; the 2<sup>d</sup> of pure  
 the more it acts of from excretion of purgative to a given point  
 should not be exceeded until its effects have been ascertained.  
 3<sup>d</sup>, 4<sup>th</sup> Opium is recommended to counteract the  
 action with the Stramonium, as it destroys the violent  
 and effects without impairing those which are beneficial.

The external use of these articles has not been  
 neglected. This mode when it can be more successfully  
 preferred, as the vigorous effects are more certain. They are  
 applied in the form either of an anointment or plaster to the  
 extremities of the affected nerve. With the same view  
 as Cuius has employed with success a plaster chiefly com-  
 posed of Lead. The failure of the articles of this class may  
 often be attributed to the impurity of the successive articles  
 not being given in doses sufficient to bring the system  
 under its control. These medicines are given from  
 eight per cent to six grains and a grain is to be given every  
 hour to produce that specific effect. It is nothing but





that impurely cannot tolerate the immense dose which is usually have been found requisite to produce such medicinal effects. This was verified by  $\frac{1}{2}$  inch of the Cera was taken in the amount of eight grains as a dose for an hour was produced "very slight quietness for a short time" when such imperfect medicine was used in its usual dose when the amount taken and by the system causing generally according to its action we are disappointed in its effects. For it appears that the more the system is irritated the greater is the infestation on the disease and the smaller the dose subsequently required for its control.

In other measures failing we resort to our last expedient to the division of the nerve. It is evident that this can do evil but little unless the division be made between the diseased point and the sensorium. The operation was met with success in the hands of Andre, Knighten and others, but with more it has ended in disappointment and failure. The cause of failure may often be attributed to ignorance of the location of the disease, with which even at the present day we are not better acquainted. The following circum-



studies very judiciously, and some insight into the mystery  
 of it is manifested in what is at a 1<sup>st</sup> thought upon London  
 signs, that "prophets in the land in its own name" the  
 pain? The circumstances however, as supposed, but the dis-  
 ease was extensive over the extent of the room and therefore  
 of the progress was to cut off its communication with the com-  
 munity. The result of the operation was a singular and singular in  
 recent cases, even presented in the same person but were much  
 occurred which gives rise to the same supposition. There is a  
 1<sup>st</sup> instance in the progress of some, which is a subject of  
 general notice, and a subject of the disease. A common story  
 that some persons with a very high opinion of their health  
 of many to be surprised at the recollection of the disease. Cases of this  
 kind are reported by Leake, & Simpson, & several others.

The means of operating in cases of the singular disease, the  
 other the extension of operation of the disease, in particular  
 of Leake and others, but similar proved remarkably the re-  
 sult of the disease. The success of operation is often not such  
 to remove the disease never it is totally prevented it. A sec-  
 ond of the first was a case, & a track in the case of







magnetic needle. Two opinions have not dissented  
and it is at present but rarely employed. Whether  
it ever was efficacious, except by its effect on the  
imagination, it is impossible to say. We cannot how-  
ever be considered too sceptical in doubting its pow-  
ers, when the fate of a similar remedy, the metallic  
Lixivium, is taken into consideration.

The *Scapular* needle now stands high in the  
estimation of many. Notwithstanding the high recom-  
mendations passed upon it, its efficacy in the cure of Neural-  
gia yet remains doubtful. We have seen it applied in  
several cases, but never with any decided benefit.  
This however should not deter us from its use, as the  
application is simple, and the pain produced is but  
slight. In addition to which some cases may be  
more appropriate for its application than others,  
a circumstance which at present we are unable  
to perceive.





